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	1				50
SEQ ID NO: 1	MSKKTLLKRL	ALVVVLFILS	GSGLDFSIT	SANAQQATDR	SNSVNYSTDG
SEQ ID NO: 2	MRKKTLLKRL	TLVVGLVILS	GLSILDFSIT	SASAQQATDR	SNSVNYSTDV
SEQ ID NO: 3	.....MKS	RYKRLTSLAL	SLSMALGISL	PAWASPDTSV	DNKVNPFSTDV
SEQ ID NO: 4	.....MKK	QVKWLTSVSM	SVGIALGAAL	PVWASPDTSV	NNKLNPFSTDV
SEQ ID NO: 5	.....	.....	.....	....ASDTAV	SNVVNYSTDV
SEQ ID NO: 6	.....	.....	.....	....APDTSV	SNVVNYSTDV
SEQ ID NO: 7	MFQMAKRAFL	STTLTLGLLA	GSALPFLPAS	AVYADPDTAV	TNKQSFSTDV
SEQ ID NO: 8	MFQMAKRVL	STTLTFSLA	GSALPFLPAS	AIYADADTAV	TNKQNFSTDV
SEQ ID NO: 9	.....MKRFM	KLTAVWTLWL	SLTLGLL..S	PVHAAPDTSV	SNKQNFSTDV
SEQ ID NO: 10	.....MKRFM	KLTAVWTLWL	SLTLGLL..S	PVHAAPDTSV	SNKQNFSTDV
SEQ ID NO: 11	.....MKKFL	KSTAALALGL	SLTFGLF..S	PAQAAPDTSV	SNKQNFSTDV
SEQ ID NO: 12	.....	.....	.....	....APDTSV	SNKQNFSTDV
SEQ ID NO: 13	.....MKNLT	VLLKTIPLAL	LLFI.LLS..	.LPTAAQADV	TNKVNYTRDV
SEQ ID NO: 14	.....MNDLN	DFLKTILLSF	IFFL.LLS..	.LPTVAEADV	TNKVNYSKDV
SEQ ID NO: 15	.....MRRWL	SLVLSMSFVF	SAIF.IVSDT	QKVTVEAAGN	LNKVNFTSDV
SEQ ID NO: 16	...MKRNRFF	NTSAAIAISI	ALNTFFCSMQ	TIAAEPEETY	...LDFRKET
	51				100
SEQ ID NO: 1	IYQIVTDRFY	DGDESNNPSG	ELYSEGCKNL	RKYCGGDWQG	IIDKIDDGYL
SEQ ID NO: 2	IYQIVTDRFY	DGDESNNPSG	ELYSEDCKNL	RKYCGGDWQG	IIDKIDDGYL
SEQ ID NO: 3	IYQIVTDRFA	DGDRTNPNAG	DAFSGDRSNL	KLYFGGDWQG	IIDKINDGYL
SEQ ID NO: 4	VYQIVTDRFV	DGNSANNPTG	AAFSSDHSNL	KLYFGGDWQG	ITNKINDGYL
SEQ ID NO: 5	IYQIVTDRFV	DGNTSNNPTG	DLYDPHTSL	KKYFGGDWQG	IINKINDGYL
SEQ ID NO: 6	IYQIVTDRFL	DGNPSNNPTG	DLYDPHTSL	KKYFGGDWQG	IINKINDGYL
SEQ ID NO: 7	IYQVFTDRFL	DGNPSNNPTG	AAYDATCSNL	KLYCGGDWQG	LINKINDNYF
SEQ ID NO: 8	IYQVFTDRFL	DGNPSNNPTG	AAFDGTCSNL	KLYCGGDWQG	LVNKINDNYF
SEQ ID NO: 9	IYQIFTDRFS	DGNPANNTG	AAFDGSCTNL	RLYCGGDWQG	IINKINDGYL
SEQ ID NO: 10	IYQIFTDRFS	DGNPANNTG	AAFDGSCTNL	RLYCGGDWQG	IINKINDGYL
SEQ ID NO: 11	IYQIFTDRFS	DGNPANNTG	AAFDGTCTNL	RLYCGGDWQG	IINKINDGYL
SEQ ID NO: 12	IYQIFTDRFS	DGNPANNTG	PAFDGTCTNL	RLYCGGDWQG	IINKINDGYL
SEQ ID NO: 13	IYQIVTDRFS	DGDPSNNPTG	AIYSQDCSDL	HKYCGGDWQG	IIDKINDGYL
SEQ ID NO: 14	IYQIVTDRFS	DGNPGNNPSG	AIFSQCIDL	HKYCGGDWQG	IIDKINDGYL
SEQ ID NO: 15	VYQIVVDRFV	DGNTSNNPSG	ALFSSGCTNL	RKYCGGDWQG	IINKINDGYL
SEQ ID NO: 16	IYFLFLDRFS	DGDPSNNAGF	NSATYDPNNL	KKYTGGLRG	LINKL..PYL
	101				150
SEQ ID NO: 1	TNMGVTALWI	SPPVENIFET	IDDES..GTT	SYHGYWARDY	KKTNPFFGST
SEQ ID NO: 2	TNMGVTALWI	SPPVENIFET	IDDEF..GTT	SYHGYWARDY	KKTNPFFGST
SEQ ID NO: 3	TGMGVTALWI	SQPVENITSV	IKYSGVNN.T	SYHGYWARDY	KQTNDAGDF
SEQ ID NO: 4	TGMGVTALWI	SQPVENITAV	INYSGVNN.T	AYHGYWPRDF	KKTNAAFGSF
SEQ ID NO: 5	TGMGVTALWI	SQPVENIYAV	LPDSTFGGST	SYHGYWARDY	KRTNPYFGSF
SEQ ID NO: 6	TGMGVTALWI	SQPVENIYAV	LPDSTFGGST	SYHGYWARDY	KKTNPFFGSF
SEQ ID NO: 7	SDLGVTALWI	SQPVENIFAT	INYSGVNN.T	AYHGYWARDY	KKTNPYFGTM
SEQ ID NO: 8	SDLGVTALWI	SQPVENIFAT	INYSGVNN.T	AYHGYWARDY	KKTNPYFGTM
SEQ ID NO: 9	TGMGVTALWI	SQPVENIYSV	INYSGVNN.T	AYHGYWARDY	KKTNPAYGTM
SEQ ID NO: 10	TGMGVTALWI	SQPVENIYSV	INYSGVNN.T	AYHGYWARDY	KKTNPAYGTM
SEQ ID NO: 11	TGMGVTALWI	SQPVENIYSI	INYSGVNN.T	AYHGYWARDY	KKTNPAYGTI
SEQ ID NO: 12	TGMGVTALWI	SQPVENIYSV	INYSGVNN.T	AYHGYWARDY	KKTNPAYGTI
SEQ ID NO: 13	TDLGVTALWI	SQPVENIYAL	..HPS..GYT	SYHGYWARDY	KRTNPYFGDF
SEQ ID NO: 14	TDLGVTALWI	SQPVENIYAL	..HPS..GYT	SYHGYWARDY	KKTNPYFGDF
SEQ ID NO: 15	TDMGVTALWI	SQPVENIYFSV	MNDAS..GSA	SYHGYWARDY	KKPNPFFGTL
SEQ ID NO: 16	KSLGVTALWI	TPPIDNV...	..NNTDAAGNT	GYHGYWGRDY	FRIDEHFGNL

Fig. 1

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151				200			
SEQ ID NO: 1	EDFERLIETA	HSH..DIKIV	IDLAPNHTSP	ADFDNPNYAE	NGILYDNGNY		
SEQ ID NO: 2	EDFERLIETA	HSH..DIKIV	IDLAPNHTSP	ADFDNPDYAE	NGVLYDDGNY		
SEQ ID NO: 3	ADFQNLIDTA	HAH..NIKVV	IDFAPNHTSP	ADRDNPGFAE	NGGMYDNGSL		
SEQ ID NO: 4	TDFSNLIAAA	HSH..NIKVV	MDFAPNHTNP	ASSTDPSFAE	NGALYNGTTL		
SEQ ID NO: 5	TDFQNLINTA	HAH..NIKVI	IDFAPNHTSP	ASETDPITYAE	NGRLYDNGTTL		
SEQ ID NO: 6	TDFQNLIDTA	HAH..NIKVI	IDFAPNHTSP	ASETDPITYGE	NGRLYDNGVL		
SEQ ID NO: 7	ADFQNLITTA	HAK..GIKIV	IDFAPNHTSP	AMETDTSFAE	NGRLYDNGTTL		
SEQ ID NO: 8	TDFQNLVTTA	HAK..GIKII	IDFAPNHTSP	AMETDTSFAE	NGKLYDNGNL		
SEQ ID NO: 9	QDFKNLIDTA	HAH..NIKVI	IDFAPNHTSP	ASSDDPSFAE	NGRLYDNGNL		
SEQ ID NO: 10	QDFKNLIDTA	HAH..NIKVI	IDFAPNHTSP	ASSDDPSFAE	NGRLYDNGNL		
SEQ ID NO: 11	ADFQNLIAAA	HAK..NIKVI	IDFAPNHTSP	ASSDQPSFAE	NGRLYDNGTTL		
SEQ ID NO: 12	ADFQNLIAAA	HAK..NIKVI	IDFAPNHTSP	ASLDQPSFAE	NGKLYNNGRD		
SEQ ID NO: 13	SDFDRLMDTA	HSN..GIKVI	MDFTPNHSSP	ALETDPYAE	NGAVYNDGVL		
SEQ ID NO: 14	DDFDRLMSTA	HSN..GIKVI	MDFTPNHSSP	ALETNPYVE	NGAIYDNGAL		
SEQ ID NO: 15	SDFQRLVDAA	HAK..GIKVI	IDFAPNHTSP	ASETNPYSME	NGRLYDNGTTL		
SEQ ID NO: 16	DDFKELTSLM	HSPDYNMKLV	LDYAPNHSNA	NDEN.....E	FGALYRDGVF		
201				250			
SEQ ID NO: 1	VSSYSDNS..	..DLFLYNGG	.TDFSTYEDE	IYRNLFDLAS	FNHINAEELNN		
SEQ ID NO: 2	LGSYSDDS..	..DLFLYNGG	.TDFSNYEDE	IYRNLFDLAS	FNHINSELNN		
SEQ ID NO: 3	LGAYSNDTA.	..GLFHNGG	.TDFSTIEDG	IYKNLYDLAD	LNHNNNAMDA		
SEQ ID NO: 4	LGKYSNDTA.	..GLFHNGG	.TDFSTTESG	IYKNLYDLAD	INQNNNTIDS		
SEQ ID NO: 5	LGGYTNDTN.	..GYFHHYGG	.TDFSSYEDG	IYRNLFDLAD	LNQONSTIDS		
SEQ ID NO: 6	LGGYTNDTN.	..GYFHHYGG	.TNFSSYEDG	IYRNLFDLAD	LDQQNSTIDS		
SEQ ID NO: 7	VGGYTNDTN.	..GYFHNGG	.SDFSSLENG	IYKNLYDLAD	FNHNNTATDK		
SEQ ID NO: 8	VGGYTNDTN.	..GYFHNGG	.SDFSTLENG	IYKNLYDLAD	LNHNNTSTIDT		
SEQ ID NO: 9	LGGYTNDTQ.	..NLFHHYGG	.TDFSTIENG	IYKNLYDLAD	LNHNNSVVDV		
SEQ ID NO: 10	LGGYTNDTQ.	..NLFHHYGG	.TDFSTIENG	IYKNLYDLAD	LNHNNSVVDV		
SEQ ID NO: 11	LGGYTNDTQ.	..NLFHHNGG	.TDFSTTENG	IYKNLYDLAD	LNHNNTVVDV		
SEQ ID NO: 12	EGGYTNDTH.	..NLFHHNGG	.TDFSTTENG	IYKNLYDLAD	LNHNNTVVDV		
SEQ ID NO: 13	IGNYSNDPN.	..NLFHHNGG	.TDFSSYEDS	IYRNLYDLAD	YDLNNTVMDQ		
SEQ ID NO: 14	LGNYSNDQQ.	..NLFHHNGG	.TDFSSYEDS	IYRNLYDLAD	YDLNNTVMDQ		
SEQ ID NO: 15	LGGYTNDAN.	..MYFHNGG	.TTFSSLEDG	IYRNLFDLAD	LNHNQNPVIDR		
SEQ ID NO: 16	ITDYPTNVAA	NTGWYHNGG	VTNWNDFQV	KNHNLFNLS	LNQSNNTDVYQ		
251				300			
SEQ ID NO: 1	YLEDVKKWL	DLGIDGIRID	AVAHMPPGWQ	KAYMDTIY.D	HRAV.....F		
SEQ ID NO: 2	YLEDVKKWL	DLGIDGIRID	AVAHMPPGWK	KAYMDTIY.D	HRAV.....F		
SEQ ID NO: 3	YFKSAIDLWL	GMGVDGIRFD	AVKHMPFGWQ	KSFVSSIYGG	DHPV.....F		
SEQ ID NO: 4	YLKESIQWL	NLGVDGIRFD	AVKHMPQGWQ	KSYVSSIYSS	ANPV.....F		
SEQ ID NO: 5	YLKSAIKVWL	DMGIDGIRLD	AVKHMPFGWQ	KNFMDSIL.S	YRPV.....F		
SEQ ID NO: 6	YLKAAIKLWL	DMGIDGIRMD	AVKHMAFGWQ	KNFMDSIL.S	YRPV.....F		
SEQ ID NO: 7	YFKDAIKLWL	DMGVDGIRVD	AVKHMPFGWQ	KSWMSSIY.A	HKPV.....F		
SEQ ID NO: 8	YFKDAIKLWL	DMGVDGIRVD	AVKHMPQGWQ	KNWMSSIY.A	HKPV.....F		
SEQ ID NO: 9	YKDAIKMWL	DLGVDGIRVD	AVKHMPFGWQ	KSFMATIN.N	YKPV.....F		
SEQ ID NO: 10	YKDAIKMWL	DLGVDGIRVD	AVKHMPFGWQ	KSFMATIN.N	YKPV.....F		
SEQ ID NO: 11	YKDAIKMWL	DLGIDGIRMD	AVKHMPFGWQ	KSFMAAVN.N	YKPV.....F		
SEQ ID NO: 12	YKDAIKMWL	DLGIDGIRMD	AVKHMPFGWQ	KSFMATVN.N	YKPV.....F		
SEQ ID NO: 13	YLKESIKLWL	DKGIDGIRVD	AVKHMSEGWQ	TSLMSDIY.A	HEPV.....F		
SEQ ID NO: 14	YLKESIKFWL	DKGIDGIRVD	AVKHMSEGWQ	TSLMSEIY.S	HKPV.....F		
SEQ ID NO: 15	YKDAVKMWI	DMGIDGIRMD	AVKHMPFGWQ	KSLMDEID.N	YRPV.....F		
SEQ ID NO: 16	YLLDGSKFWI	DAGVDAIRID	AIKHMDKSF	QKWTSDIYDY	SKSIGREGFF		

Fig. 1 continued

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301				350			
SEQ ID NO: 1	TFGEWFTGPY	....G.NEDY	TKFANNSGMS	VLDFFRFAQTT	RNVIGNNNGT		
SEQ ID NO: 2	TFGEWFTGPS	....G.NEDY	TKFANNSGMS	VLDFFRFAQTT	RNVIGNNNGT		
SEQ ID NO: 3	TFGEWYLGAD	....QTDGDN	IKFANESGMN	LLDFEYAEV	REVFRDKTET		
SEQ ID NO: 4	TFGEWFLGPD	....EMTQDN	INFANQSGMH	LLDFAFAQEI	REVFRDKSET		
SEQ ID NO: 5	TFGEWFLGTN	....EIDVNN	TYFANESGMS	LLDFFRFSQKV	RQVFRDNTDT		
SEQ ID NO: 6	TFGEWYLGTN	....EVDPNN	TYFANESGMS	LLDFFRFAQKV	RQVFRDNTDT		
SEQ ID NO: 7	TFGEWFLGSA	....ASDADN	TDFANKSGMS	LLDFFRFNSAV	RNVFRDNTSN		
SEQ ID NO: 8	TFGEWFLGSA	....APDADN	TDFANESGMS	LLDFFRFNSAV	RNVFRDNTSN		
SEQ ID NO: 9	TFGEWFLGVN	....EISPEY	HQFANESGMS	LLDFFRFAQKA	RQVFRDNTDN		
SEQ ID NO: 10	NFGEWFLGVN	....EISPEY	HQFANESGMS	LLDFFFAQKA	RQVFRDNTDN		
SEQ ID NO: 11	TFGEWFLGVN	....EVSPEN	HKFANESGMS	LLDFFRFAQKV	RQVFRDNTDN		
SEQ ID NO: 12	TFGEWFLGVN	....EVSSEN	HKFANVSGMS	LLDFFRFAQKV	RQVFRDNTDN		
SEQ ID NO: 13	TFGEWFLGSG	....EVDPNQ	HHFANESGMS	LLDFQFGQTI	RDVLMGSSN		
SEQ ID NO: 14	TFGEWFLGSG	....EVDPNQ	HHFANESGMS	LLDFQFGQTI	RNVLRDRTSN		
SEQ ID NO: 15	TFGEWFLSEN	....EVDANN	HYFANESGMS	LLDFFRFGQKL	RQVLRNNSDN		
SEQ ID NO: 16	FFGEWFGASA	NTTGVVDGNA	IDYANTSGSA	LLDFGFRDTL	ERVLVGRSGN		
351				400			
SEQ ID NO: 1	.MYDIEKMLT	DTENDYDRPQ	DQVTFIDNHD	MSRFTNDGES	T.....		
SEQ ID NO: 2	.MYDIEKMLT	DTENDYDRPQ	DQVTFIDNHD	MSRFTNGGES	T.....		
SEQ ID NO: 3	.MKDLYEVLA	STESQYDYIN	NMVTFFIDNHD	MDRFQVAGSG	T.....		
SEQ ID NO: 4	.MTDLNSVIS	STGSSYNYIN	NMVTFFIDNHD	MDRFQVAGAS	T.....		
SEQ ID NO: 5	.MYGLDSMIQ	STASDYNFIN	DMVTFFIDNHD	MDRFYNG.GS	T.....		
SEQ ID NO: 6	.MYGLDSMIQ	STAADYNFIN	DMVTFFIDNHD	MDRFYTG.GS	T.....		
SEQ ID NO: 7	.MYALDSMIN	STATDYNQVN	DQVTFIDNHD	MDRFKTSAVN	N.....		
SEQ ID NO: 8	.MYALDSMLT	ATAADYNQVN	DQVTFIDNHD	MDRFKTSAVN	N.....		
SEQ ID NO: 9	.MYGLKAMLE	GSEVDYAQVN	DQVTFIDNHD	MERFHTSNGD	R.....		
SEQ ID NO: 10	.MYGLKAMLE	GSEVDYAQVN	DQVTFIDNHD	MERFHTSNGD	R.....		
SEQ ID NO: 11	.MYGLKAMLE	GSAADYAQVD	DQVTFIDNHD	MERFHASNAN	R.....		
SEQ ID NO: 12	.MYGLKSMLE	GSATDYAQME	DQVTFIDNHD	MERFHNSAN	R.....		
SEQ ID NO: 13	.WYDFNEMIA	STEEDYDEVI	DQVTFIDNHD	MSRFSFEQSS	N.....		
SEQ ID NO: 14	.WYDFNEMIT	STEKEYNEVI	DQVTFIDNHD	MSRFSVGSSS	N.....		
SEQ ID NO: 15	.WYGFNQMIQ	DTASAYDEV	DQVTFIDNHD	MDRFMIDGGD	P.....		
SEQ ID NO: 16	TMKTLNSYLI	KRQTVFTSDD	WQVVFMDNHD	MARIGTALRS	NATTFGPGNN		
401				450			
SEQ ID NO: 1	.....	..RTTDIGLA	LMLTSRGVPT	IYYGTEQYME	G.....		
SEQ ID NO: 2	.....	..RTTDIGLA	LMLTSRGVPT	IYYGTEQYMK	G.....		
SEQ ID NO: 3	.....	..RATEQALA	LTLTSRGVPA	IYYGTEQYMT	G.....		
SEQ ID NO: 4	.....	..RPTEQALA	VTLTSRGVPA	IYYGTEQYMT	G.....		
SEQ ID NO: 5	.....	..RPVEQALA	FTLTSRGVPA	IYYGTEQYMT	G.....		
SEQ ID NO: 6	.....	..RPVEQALA	FTLTSRGVPA	IYYGTEQYMT	G.....		
SEQ ID NO: 7	.....	..RRLEQALA	FTLTSRGVPA	IYYGTEQYLT	G.....		
SEQ ID NO: 8	.....	..RRLEQALA	FTLTSRGVPA	IYYGTEQYLT	G.....		
SEQ ID NO: 9	.....	..RKLEQALA	FTLTSRGVPA	IYYGSEQYMS	G.....		
SEQ ID NO: 10	.....	..RKLEQALA	FTLTSRGVPA	IYYGSEQYMS	G.....		
SEQ ID NO: 11	.....	..RKLEQALA	FTLTSRGVPA	IYYGSEQYMS	G.....		
SEQ ID NO: 12	.....	..RKLEQALA	FTLTSRGVPA	IYYGSEQYMS	G.....		
SEQ ID NO: 13	.....	..RHTDIALA	VLLTSRGVPT	IYYGTEQYLT	G.....		
SEQ ID NO: 14	.....	..RQTDMALA	VLLTSRGVPT	IYYGTEQYVT	G.....		
SEQ ID NO: 15	.....	..RKVDMALA	VLLTSRGVPA	IYYGTEQYMT	G.....		
SEQ ID NO: 16	ETGGSQSEAF	AQKRIDLGLV	ATMTVRGIPA	IYYGTEHYAA	NFTSNSFGQV		

Fig. 1 continued

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451	500
SEQ ID NO: 1	DGDPGSRGMM ESFGENTDAY KLIQKLAPLR KSNPAYGYGT TKERWINDDV
SEQ ID NO: 2	DGDPGSRGMM ASFDENTDAY KLIQKLAPLR KSNPAYGYGT TTERWINDDV
SEQ ID NO: 3	DGDPNNRAMM TSFNTGTTAY KVIQALAPLR KSNPAIAYGT TTERWVNDV
SEQ ID NO: 4	NGDPNNGMM TGFDNTKTAY KVIKALAPLR KSNPALAYGS TTQRWVNSDV
SEQ ID NO: 5	NGDPYNRAMM TSFNTSTTAY NVIKKLAPLR KSNPAIAYGT TQQRWINNDV
SEQ ID NO: 6	NGDPYNRAMM TSFDTTTTAY NVIKKLAPLR KSNPAIAYGT QKQRWINNDV
SEQ ID NO: 7	NGDPDNRAKM PSFSKSTTAF NVISKLAPLR KSNPAIAYGS TQQRWINNDV
SEQ ID NO: 8	NGDPDNRGKM PSFSKSTTAF NVISKLAPLR KSNPAIAYGS TQQRWINNDV
SEQ ID NO: 9	GNDPDNRRL PSFSTTTTAY QVIQKLAPLR KSNPAIAYGS THERWINNDV
SEQ ID NO: 10	GNDPDNRARI PSFSTTTTAY QVIQKLAPLR KSNPAIAYGS TQERWINNDV
SEQ ID NO: 11	GTDPDNRARI PSFSTTTTAY QVIQKLAPLR KSNPAIAYGS TQERWINNDV
SEQ ID NO: 12	GNDPDNRARI PSFSTTTTAY QVSKKLAPLR KSNPAIAYGT TQERWINNDV
SEQ ID NO: 13	GNDPENRKPM SDFDRTTNSY QIISTLASLR QNNPALGYGN TSEWINSDV
SEQ ID NO: 14	GNDPENRKPL KTFDRSTNSY QIISKLASLR QTNALGYGT TTERWLNEDI
SEQ ID NO: 15	NGDPNNRKM SSFNKNTRAY QVIQKLSSLR RNNPALAYGD TEQRWINGDV
SEQ ID NO: 16	GSDPYNREKM PGFDTESEAF SIIKTLGDLR KSSPAIQNGT YTELWVNDI

  

501	550
SEQ ID NO: 1	IIYERNFGDN YALIAINRNL NTSYNIQGLQ TEMPSNSYDD VLDGLLDGQS
SEQ ID NO: 2	LIYERHFGEN YALIAINRSL NTSYNIQGLQ TEMPSNSYDD VLDGLLDGQS
SEQ ID NO: 3	LIYERKFGSS AALVAINRNS SAAYPISGLL SSLPAGTYSD VLNGLLNGNS
SEQ ID NO: 4	YVYERKFGSN VALVAVNRSS TTAYPISGAL TALPNGTYTD VLGGLLNGNS
SEQ ID NO: 5	YIYERKFGNN VALVAINRNL STSYNITGLY TALPAGTYTD VLGGLLNGNS
SEQ ID NO: 6	YIYERQFGNN VALVAINRNL STSYITGLY TALPAGTYSD MLGGLLNGSS
SEQ ID NO: 7	YVYERKFGKS VAVVAVNRNL STSASITGLS TSLPTGSYTD VLGGLVNGNN
SEQ ID NO: 8	YIYERKFGKS VAVVAVNRNL TTPTSITNLN TSLPSGYTD VLGGLVNGNN
SEQ ID NO: 9	IIYERKFGNN VAVVAINRNM NTPASITGLV TSLRRASYND VLGGLNGNT
SEQ ID NO: 10	IIYERKFGNN VAVVAINRNM NTPASITGLV TSLPQGSYND VLGGLNGNT
SEQ ID NO: 11	LIYERKFGSN VAVVAVNRNL NAPASISGLV TSLPQGSYND VLGGLNGNT
SEQ ID NO: 12	LIYERKFGNN VAVVAVNRNL NTSASITGLV TSLPAGSYTD VLGGLNGNN
SEQ ID NO: 13	YIYERSFGDS VVLTAVN.SG DTSYITNLN TSLPQGYTD ELQQLDNGNE
SEQ ID NO: 14	YIYERTFGNS IVLTAVN.SS NSNQTITNLN TSLPQGYTD ELQQLDNGNT
SEQ ID NO: 15	YVYERQFGKD VVLVAVNRSS SSNYSITGLF TALPAGTYTD QLGGLDNGNT
SEQ ID NO: 16	LVFERRSGND IVIVALNRGE ANTINVKNIA VP.....NG VYPSLIGNNS

  

551	600
SEQ ID NO: 1	IVVDNNGEVN EFQMSPEVG VWEFEATNVD KPSIGQVGPI IGEAGRTVTI
SEQ ID NO: 2	IVVDNKGGVN EFQMSPEVS VWEFEAENV D KPSIGQVGPI IGEAGRTVTI
SEQ ID NO: 3	ITVGSGGAVT NFTLAAGGTA VWQYTAPE.T SPAIGNVGPT MGQPGNIVTI
SEQ ID NO: 4	ITVN.GGTVS NFTLAAGGTA VWQYTTTE.S SPIIGNVGPT MGKPGNTITI
SEQ ID NO: 5	ISVASDGSVT PFTLSAGEVA VWQYVSSS.N SPLIGHVGPT MTKAGQTITI
SEQ ID NO: 6	ITVSSNGSVT PFTLAPGEVA VWQYVSTT.N PPLIGHVGPT MTKAGQTITI
SEQ ID NO: 7	IT.STNGSIN NFTLAAGATA VWQYTTAE.T TPTIGHVGPT MGKPGNVVTI
SEQ ID NO: 8	IT.SSGGNIS SFTLAAGATA VWQYTASE.T TPTIGHVGPT MGKPGNVVTI
SEQ ID NO: 9	LTVGAGGAAS NFTLAPGGTA VWQYTTDA.T TPIIGNVGPM MAKPGVTITI
SEQ ID NO: 10	LTVGAGGAAS NFTLAPGGTA VWQYTTDA.T APIGNVGPM MAKPGVTITI
SEQ ID NO: 11	LSVGSGGAAS NFTLAAGGTA VWQYTAAT.A TPTIGHVGPM MAKPGVTITI
SEQ ID NO: 12	LTVGSGGSAS IFTLAAGGTA VWQYTTAV.T APTIGHVGPM MAKPGAAVTI
SEQ ID NO: 13	ITVNSNGAVD SFQLSANGVS VWQITEEH.A SPLIGHVGPM MGKHGNTVTI
SEQ ID NO: 14	ITVNANGAVN SFQLRANSVA VWQVSNPS.T SPLIGHVGPM MGKAGNTITI
SEQ ID NO: 15	IQVGSNGSVN AFDLGPGEVG VWAYSATE.S TPIIGHVGPM MGQVGHQVTI
SEQ ID NO: 16	VSVANK..RT TLTLMQNEAV VIRSQSDDAE NPTVQ.....

Fig. 1 continued

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601				650			
SEQ ID NO: 1	SGEGFGSSPG	TVQFGSTS..	.AEIVSWNDT	VIIITVPMNE	AGYHDITVVT		
SEQ ID NO: 2	SGEGFGSSQG	TVHFGSTS..	.AEILSWNDT	IITLTVPMNE	AGYHDITVVT		
SEQ ID NO: 3	DGRGFGGTAG	TVYFGTTAVT	GSGIVSWEDT	QIKAVIPKVA	AGKTGVS VKT		
SEQ ID NO: 4	DGRGFGTTKN	KVTFGTTAVT	GANIVSWEDT	EIKVKVPNVA	AGNTAVTVTN		
SEQ ID NO: 5	DGRGFGTTSQ	QVLFGSTAGT	...IVSWDDT	EVKVKVPSVT	PGKYNISLKT		
SEQ ID NO: 6	DGRGFGTTAG	QVLFGTTPAT	...IVSWEDT	EVKVKVPALT	PGKYNITLKT		
SEQ ID NO: 7	DGRGFGSTKG	TVYFGTTAVT	GAAITSWEDT	QIKVTIPPSVA	AGNYAVKVA.		
SEQ ID NO: 8	DGRGFGSAKG	TVYFGTTAVT	GSAITSWEDT	QIKVTIPPVA	GGDYAVKVA.		
SEQ ID NO: 9	DGRGFGSGKG	TVYFGTTAVT	GADIVAWEDT	QIQVKIPAVP	GGIYDIRVAN		
SEQ ID NO: 10	DGRA.SARQG	TVYFGTTAVT	GADIVAWEDT	QIQVKILRVP	GGIYDIRVAN		
SEQ ID NO: 11	DGRGFGSSKG	TVYFGTTAVS	GADITSWEDT	QIKVKIPAVA	GGNYNIKVAN		
SEQ ID NO: 12	DGRGFGATKG	TVYFGTTAVT	GANITAWEDT	QIKVKIPAVA	GGVYNIKIAN		
SEQ ID NO: 13	TGEGFGDNEG	SVLFDSDF..	.SDVLSWSDT	KIEVSVPDVT	AGHYDISVVN		
SEQ ID NO: 14	SGEGFGDERG	SVLFDSTS..	.SEIISWSNT	KISVKVPNVA	GGYYDLSVVT		
SEQ ID NO: 15	DGEGFGTNTG	TVKFGTTA..	.ANVVSWSNN	QIVVAVPNVS	PGKYNITVQS		
SEQ ID NO: 16	.....	.....	.....	.....	.....		
651				700			
SEQ ID NO: 1	EDEQVSNA YE	.FEVLTADQV	TVRFIIDNAE	TKMGENIFLV	GNVHELGNW.		
SEQ ID NO: 2	EDEQVSNA YE	.FEVLTADQV	TVRFIIDNAE	TKLGENVFLV	GNVHELGNW.		
SEQ ID NO: 3	SSGTASNTFK	SFNVLTGDQV	TVRFLVNQAN	TNYGTNVYLV	GNAEELGSW.		
SEQ ID NO: 4	AAGTTSAAFN	NFNVLTDQV	TVRFKVMNAT	TALGQNVYLT	GNVAELGNW.		
SEQ ID NO: 5	SSGATSNTYN	NINILTGNI	CVRFVVMNAS	TVYGENVYLT	GNVAELGNW.		
SEQ ID NO: 6	ASGVTSNSYN	NINVLTGNI	CVRFVVMNAS	TVWGENVYLT	GNVAELGNW.		
SEQ ID NO: 7	ASGVNSNAYN	NFTILTDQV	TVRFVVMNAS	TTLGQNLVLT	GNVAELGNWS		
SEQ ID NO: 8	ANGVNSNAYN	DFTILSGDQV	SVRFVINNAT	TALGENIYLT	GNVSELGNWT		
SEQ ID NO: 9	AAGAASNIYD	NFEVLTGDQV	TVRFVINNAT	TALGQNVFLT	GNVSELGNW.		
SEQ ID NO: 10	AAGAASNIYD	NFEVLTGDQV	TVRFVINNAT	TALGQNVFLT	GNVSELGNW.		
SEQ ID NO: 11	AAGTASNVD	NFEVLSDQV	SVRFVVMNAT	TALGQNVYLT	GSVSELGNW.		
SEQ ID NO: 12	SAGTSSNVHD	NFEVLSDQV	SVRFVVMNAT	TALGQNVYLA	GSVSELGNW.		
SEQ ID NO: 13	AGDSQSPTYD	KFEVLTGDQV	SIRFAVMNAT	TSLGNTLYMV	GNVNELGNW.		
SEQ ID NO: 14	AANIKSPTYK	EFEVLSDQV	SVRFVVMNAT	TSPGNTLYIV	GNVNELGNW.		
SEQ ID NO: 15	SSGQTSAAVD	NFEVLTDQV	SVRFVVMNAT	TNLGQNIYIV	GNVYELGNW.		
SEQ ID NO: 16	.....	.....	SINFCTNNGY	TISGQSVYII	GNIPQLGGW.		
701				750			
SEQ ID NO: 1	DPEQSVGRFF	NQVVYQYPTW	YYDVNPANT	DLEFKFIKID	Q...DNNVTW		
SEQ ID NO: 2	DPEQSVGRFF	NQIVYQYPTW	YYDVNPANT	DLEFKFIKID	Q...DNNVIW		
SEQ ID NO: 3	DPNKAIGPMY	NQVIKYPSPW	YYDVSVAGT	KLDFKFIKKG	G...GT.VTW		
SEQ ID NO: 4	TAANAIGPMY	NQVEASYPTW	YFDVSVANT	ALQFKFIKVN	G...ST.VTW		
SEQ ID NO: 5	DTSKAIGPMF	NQVVYQYPTW	YYDVSVAGT	TIQFKFIKKQ	G...NT.ITW		
SEQ ID NO: 6	DTSKAIGPMF	NQVVYQYPTW	YYDVSVAGT	TIEFKFIKKQ	G...ST.VTW		
SEQ ID NO: 7	TGSTAIGPAF	NQVIHQYPTW	YYDVSVAGK	QLEFKFPKKQ	G...ST.ITW		
SEQ ID NO: 8	TGAASIGPAF	NQVIHAYPTW	YYDVSVAGK	QLEFKFPKKQ	G...AT.ITW		
SEQ ID NO: 9	DPNNAIGPMY	NQVVYQYPTW	YYDVSVAGQ	TIEFKFLKKQ	G...ST.VTW		
SEQ ID NO: 10	DPNNAIGPMY	NQVVYQYPTW	YYDVSVAGQ	TIEFKFLKKQ	G...ST.VTW		
SEQ ID NO: 11	DPKAIGPMY	NQVVYQYPNW	YYDVSVAGK	TIEFKFLKKQ	G...ST.VTW		
SEQ ID NO: 12	DPKAIGPLY	NQVIYQYPTW	YYDVTVAGK	TIEFKFLKKQ	G...ST.VTW		
SEQ ID NO: 13	DPDQAIGPMF	NQVMYQYPTW	YYDISVPAE	NLEYKFIKKD	S...SGNVVW		
SEQ ID NO: 14	DADKAIGPMF	NQVMYQYPTW	YYDISVPAK	NLEYKYIKKD	Q...NGNVVW		
SEQ ID NO: 15	DTSKAIGPMF	NQVVYSYPTW	YIDVSVPEGK	TIEFKFIKKQ	S...QGNVTW		
SEQ ID NO: 16	....DLTKAV	KISPTQYPQW	SASLELPSDL	NVEWKCVKRN	ETNPNTANVEW		

Fig. 1 continued

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	751	774
SEQ ID NO: 1	QSGANHTYSS	PESGTGIIRV DW..
SEQ ID NO: 2	QSGANQTYSS	PESGTGIIRV DW..
SEQ ID NO: 3	EGGNNHTYTT	PASGVGTVTV DWQN
SEQ ID NO: 4	EGGNNHTFTS	PSSGVATVTV DWQN
SEQ ID NO: 5	EGGSNHTYTV	PSSSTGTVIV NWQQ
SEQ ID NO: 6	EGGYNHVYTT	PTSGTATVIV DWQP
SEQ ID NO: 7	ESGSNHTFTT	PASGTATVTV NWQ.
SEQ ID NO: 8	EGGSNHTFTT	PTSGTATVTI NWQ.
SEQ ID NO: 9	EGGANRTFTT	PTSGTATVNV NWQP
SEQ ID NO: 10	EGGANRTFTT	PTSGTATVNV NWQP
SEQ ID NO: 11	EGGSNHTFTA	PSSGTATINV NWQP
SEQ ID NO: 12	EGGSNHTFTA	PTSGTATINV NWQP
SEQ ID NO: 13	ESGNNHTYTT	PATGTDTVLV DWQ.
SEQ ID NO: 14	QSGNNRTYTS	PTTGTDTVMI NW..
SEQ ID NO: 15	ESGSNHVYTT	PTNTTGKIIV DWQN
SEQ ID NO: 16	QSGANNQFNS	NDTQTTNGSF ....

Fig. 1 continued

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1      10      20      30      40      50      60      70
-----SSSASVKGDVIYQIIIDRFYDGDTTNNNPAKSYGLYDPTKSKWKMYWGGDLEGVRQKL--PYLK
ASDTAVSNVNYSTDVIYQIVTDRFVDGNTSNNPT---GDLYDPTHTSLKKYFGGDWQGIINKINDGYLT 67
#

QLGVTTIWLSPLVDNLDLTLGT----DNTGYHGYWTRDFKQIEEHFGNWTTFDTLVNDAHQNGIKVIVDF
GMGVTAIWISQPVENIYAVLPDSTFGGSTSYHGYWARDFKRTPNPYFGSFTDFQNLINTAHAHNIKVIIDF 137
- - - - -
      ###      #      #
*****

VPNHSTPFKANDSTFAEGGALYNNGTYMGNYFDDATKGYFHHNGDISNWDDRYEAQWKNTDPAGFSLAD
APNHTSPASETDPTYAENGRLYDNGTLLGGYTNDT-NGYFHHYGGTD-FSSYEDGIYRNLF-----DLAD 200
- - - - -
#####      #      ###      #      ###      #
      ****      ****

LSQENGTTIAQYLTDAAVQLVAHGADGLRIDAVKHFNSGFSKSLADKLYQKKDIFLVGEWYGDD-PGTANH
LNQONSTIDSYLKSAIKVWLDMGIDGIRLDAVKHMPFGWQKNFMDSILSYRPVFTFGWFLG-TNEI--D 267
- - - - -
      #      #

LEKVRVYANNSGVNVLDLFDLNTVIRNVFGTFTQTMVDLNNMVNQTGNEYKYKENLITFIDNHDMSRFLSVN
VNNTYFANESGMSLLDFRFSQKVRQVFRDNTDTMYGLDSMIQSTASDYNFINDMVTFIDNHDMDRFYN-G 336
- - - - -

SNKANLHQALAFILTSRGTPSIYYGTEQYMAGGNDPYNRGMPAFDTTTTAFKEVSTLAGLRRNNAAIQY
GSTRPVEQALAFILTSRGVPAIYYGTEQYMTGNGDPYNRAMMTSFNTSTTAYNVIKKLAPLRKSNPAIAY 406
- - - - -

GTTTQRWINNDVYIYERKFFNDVVLVAINRNTQSSYSISGLQTALPNGSYADYLSGLLGGNGISVS-NGS
GTTQQRWINNDVYIYERKFGNNVALVAINRNLSTSYNITGLYTALPAGTYTDVLGGLLNGNSISVASDGS 476

VASFTLAPGAVSVWQYST-SASAPQIGSVAPNMGIPGNVVTIDGKGFGTTQGTVTFGGVTATVKSWTSNR
VTPFTLSAGEVAVWQYVSSN-SPLIGHVGPMTMKAGQTTITIDGRGFGTTSGQVLFGSTAGTIVSWDDTE 545

IEVYVPNMAAGLTDVKVTA-GGVSSNLYS-YNILSGTQTSVVFTVKSAPPTNLGDKIYLTGNIPELGNWS
VKVKVPSVTPGKYNISLKTSSGATSNTYNNINILTGNQICVRFVNNASTVY-GENVYLTGNVAELGNWD 614

TDTSGAVNNAQGPLLAP---NYPDWFYVFSVPAGKTIQFKFKIKRADGT-IQWENGSNHVATTPTGATGN
TS-----KAIGPMFNQVVYQYPTWYYDVSVPA GTTIQFKFIKKN--GNTITWEGGSNHTYTVPSSSTGT 676

ITVTWQN
VIVNWQQ 683

```

Figure 2